

Substitute for ~~Form~~ 1449A/PTO

# INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

**COMPLETE IF KNOWN**

<b>Application Number</b>	09/914,106
---------------------------	------------

<b>Filing Date</b>	August 23, 2001
--------------------	-----------------

<b>First Named Inventor</b>	Howard, et al.
-----------------------------	----------------

### Group Art Unit

Examiner Name

Attorney Docket Number 20397P

Sheet

1

of

4

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office	Number	Kind Code (if known)		
MBP		PCT	WO 97/46681		Bayer Corporation	12/11/1997
↑		PCT	WO 97/23853		Synaptic Pharmaceutical Corporation	07/31/1997
		PCT	WO 98/03548		Shi-Hsiang, et al.	01/29/1998
		PCT	WO 98/29439		Tan, et al.	07/09/1998
		PCT	WO 98/29440		Tan, et al.	07/09/1998
		PCT	WO 98/29441		Sullivan, et al.	07/09/1998
↓		PCT	WO 95/22608		Amiranoff, et al.	08/28/1995
MBP		EPC	EP 0 711 831 A3		Tajeda Chemical Industries	05/15/1996

**Examiner  
Signature**

MICHAEL PHIL

Date Considered

31,5105

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.**

Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 09/05/2003

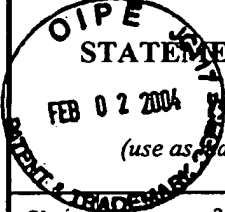
Substitute for form 1449B/PTO		<b>COMPLETE IF KNOWN</b>	
<b>INFORMATION DISCLOSURE</b>		Application Number	09/914,106
<b>STATEMENT BY APPLICANT</b>		Filing Date	August 23, 2001
<b>FEB 02 2004</b> (use as many sheets as necessary)		First Named Inventor	Howard, et al.
		Group Art Unit	1646
		Examiner Name	MICHAEL PHIL
Sheet	2 of 4	Attorney Docket Number	20397P

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
MDP		Altschul, et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Research, Vol. 25, No. 17, 1997, pp. 3389-3402.
↑		Amatruda, et al., "Specific Interactions of Chemoattractant Factor Receptors with G Proteins", J. of Biol. Chemistry, Vol. 068, No. 14, May 15, 1993, p. 10139-10144.
		Benelli, et al., "Galantide stimulates sexual behavior in male rats", Elsevier Science B.V., Vol. 260, 1994, pp. 279-282.
		Berthold, et al., "Mutagenesis and ligand modification studies on galanin binding to its GTP-binding protein coupled receptor GalR1", Eur. J. Biochem., Vol. 249, pp. 601-606, 1997.
		Buhl, et al., "Selective coupling of the human anaphylatoxin C5a receptor and α16 in human kidney 293 cells", FEBS Lett., Vol. 323, pp. 132-134, 1993.
		Chomczynski & Sacchi, "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction", Anal. Biochem., Vol. 162, pp. 156-159, 1987.
		Cunningham & Wells, "Altering the Genome by Homologous Recombination", Science, Vol. 244, pp. 1288-1292, 1989.
		Dohlman, et al., "Model Systems for the Study of Seven Transmembrane-Segment Receptors", Annu. Rev. Biochem., Vol. 60, pp. 653-688, 1991.
		Grámski, et al., "Pigment Dispersion in Frog Melanophores Can Be Induced by a Phorbol Ester or Stimulation of a Recombinant Receptor That Activates Phospholipase C", J. Biol. Chem., Vol. 268, No. 8, pp. 5957-5964, 1993.
		Habert-Ortoli, et al., "Molecular cloning of a functional human galanin receptor", Proc. Natl. Acad. Sci., Vol. 91, pp. 9780-9783, October 1994.
		Hebert, et al., "A Peptide Derived from a β2-Adrenergic Receptor Transmembrane Domain Inhibits Both Receptor Dimerization and Activation", J. Biol. Chem., Vol. 271, pp. 16384-16392, July 5 1996.
		Hess, et al., "Cloning and Pharmacological Characterization of a Human Bradykinin (BK-2) Receptor", Vol. 184, No. 1, pp. 260-268, 1992.
		Hopp and Woods, "Prediction of protein antigenic determinants from amino acid sequences", Proc. Natl. Acad. Sci. USA, Vol. 78, No. 6, pp. 3824-3828, June 1981.
↓		Hodgson, "Receptor Screening and the Search for New Pharmaceuticals", Bio/Technology, Vol. 10, pp. 973-980, September 1992.
MDP		Howard, et al., A Receptor in Pituitary and Hypothalamus That Functions in Growth Hormone Release", Science, Vol. 273, pp. 974-977, 1996

Examiner Signature	MICHAEL PHIL	Date Considered	3/15/05
--------------------	--------------	-----------------	---------

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 09/05/2003

Substitute for form 1449B/PTO		<b>COMPLETE IF KNOWN</b>	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/914,106
		Filing Date	August 23, 2001
		First Named Inventor	Howard, et al.
		Group Art Unit	1646
		Examiner Name	MICHAEL PIAL
Sheet 3 of 4	Attorney Docket Number	20397P	

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
MDP		Howard, et al., "Molecular cloning and characterization of a new receptor for galanin", FEBS Letters, Vol. 405, pp. 285-290, 1997.
↑		Ioannou, et al., "A new bacteriophage P1-derived vector for the propagation of large human DNA fragments", Genetics, Vol. 6, pp. 84-89, 1994.
		Jameson and Wolf, "The antigenic index: a novel algorithm for predicting antigenic determinants", CABIOS, Vol. 4, No. 1, pp. 191-186, 1988.
		Kask, et al., "Delineation of the peptide binding site of the human galanin receptor", The EMBO Journal, Vol. 15, No. 2, pp. 236-244, 1996.
		Kohler & Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature, Vol. 256, pp. 495-497, 1975.
		Kolakowski, et al., "Molecular Characterization and Expression of Cloned Human Galanin Receptors GALR2 and GALR3", J. Neurochem., Vol. 71, pp. 2239-2251, 1998.
		Lee, et al., "Discovery of a receptor related to the galanin receptors", FEBS Letters, Vol. 446, No. 1, pp. 103-107, 1999.
		Lerner, "Tools for investigation functional interactions between ligands and G-protein coupled receptors", TINS, Vol. 17, No. 4, 1994.
		Marchese, et al., "Cloning of Human Genes Encoding Novel G Protein-Coupled Receptors", Genomics, Vol. 23, pp. 609-618, 1994.
		McKee, et al., "Molecular Analysis of Rat Pituitary and Hypothalamic Growth Hormone Secretagogue Receptors", Mol. Enco., Vol. 11, No. 4, pp. 415-423, 1997.
		Ng, et al., "Dopamine D2 Receptor Dimers and Receptor-Blocking Peptides", Biochem. and Biophys. Res. Comm., Vol. 227, pp. 200-204, 1996.
		O'Dowd, et al., "A novel gene codes for a putative G protein-coupled receptor with an abundant expression in brain", FEBS Letters, Vol. 34, pp. 325-329, 1996.
		Offermanns & Simon, "Gα15 and Gal Couple a Wide Variety of Receptors to Phospholipase C", J. Biol. Chem., pp. 15175-15180, 1995.
↓		Parket, et al., "Cloning and characterization of the rat GALR1 galanin receptor from Rin14B insulinoma cells", Molecular Brain Research, Vol. 34, pp. 179-189, 1995.
MDP		Potenza, et al., "A Rapid Quantitative Bioassay for Evaluating the Effects of Ligands Upon Receptors That Modulate cAMP Levels in a Melanophore Cell Line", Pigment Cell Research, Vol. 5, pp. 372-378, 1992.

Examiner Signature	MICHAEL PIAL	Date Considered	3/15/05
--------------------	--------------	-----------------	---------

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 09/05/2003

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

FEB 02 2004

(use as many sheets as necessary)

4

of

4

### COMPLETE IF KNOWN

Application Number 09/914,106

Filing Date August 23, 2001

First Named Inventor Howard, et al.

Group Art Unit 1646

Examiner Name MICHAEL PAK

Attorney Docket Number 20397P

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
MPP		Romano, et al., "Metabotropic Glutamate Receptor 5 Is A Disulfide-linked Dimer", J. Biol. Chem., Vol. 271, pp. 28612-28616, 1996.
		Schertler, et al., "Projection structure of rhodopsin", Letters to Nature", Vol. 362, pp. 770-772, 1993.
		Strader, et al., "Structure and Function of G Protein-Coupled Receptors", Vol. 3, pp. 101-132, 1994.
		Stadel, et al., "Orphan G protein-coupled receptors: a neglected opportunity for pioneer drug discovery", Trends Pharmacol. Sci., Vol. 18, pp. 430-437, 1997.
		Verge, et al., "Evidence for endogenous inhibition of autotomy by galanin in the rat after sciatic nerve section: demonstrated by chronic intrathecal infusion of a high affinity galanin receptor antagonist", Neurosci. Lett., Vol. 149, pp. 193-197, 1993.
		Wang, et al., "Cloning and Expressional Characterization of a Novel Galanin Receptor", J. of Biological Chemistry", Vol. 272, No. 51, pp. 31949-31952, 1997.
		Yokomizo, et al., "A G-protein-coupled receptor for leukotriene B4 that mediates chemotaxis", Nature, Vol. 387, pp. 650-624, 1997.
		Zlokarnik, et al., "Quantitation of Transcription and Clonal Selection of Single Living Cells with $\beta$ -Lactamase as Reporter", Science, Vol. 279, pp. 84-88, 1998.
MPP		Watson, et al., "The Fine Structure of Bacterial and Phage Genes", Molecular Biology of the Gene, Fourth Edition, The Benjamin/Cummings pp. 214-238, 1987.

Examiner Signature

MICHAEL PAK

Date Considered

3-15-05

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., 09/05/2003